J.8   IRS CAPABILITY MATURITY MODEL (CMMI®) REQUIREMENTS

J.8.1   PRE-AWARD CMMI® VALIDATION

The goal of the Capability Maturity Model Integration® (CMMI®) validation effort during this source selection is to validate that Contractors selected to perform IRS software development work are capable of practicing the Software Engineering Institute (SEI^{sm}) CMMI Level 2 maturity.

The source selection practice as suggested by the SEI recommends that the procuring agency field a Standard CMMI Appraisal Method for Process Improvement$^{(sm)}$ (SCAMPI$^{(sm)}$) team to determine prospective software development Contractors' CMMI process maturity level. This is a very time-consuming, labor-intensive process and is not practical for multiple award acquisitions that are expected to consider many vendors. The objective of this approach, therefore, is to provide a means of validating Contractor process maturity within the time constraints of the acquisition.

Large Business Offerors and Small Business Offerors, who elect to compete under the full and open competition, shall provide evidence of process maturity in accordance with the IRS Policy and Procedure 39.1(B) Capability Maturity Model for software through the submission of SCAMPI results.

J.8.2   DATA SUBMISSION REQUIREMENTS

Data submitted by Offerors may vary depending on whether the Offeror seeks award under the full and open competition or the partial small business set-aside competition.

Offerors proposing under the full and open competition shall submit data from at least one external SCAMPI, but no more than three, that demonstrates software development compliance with SEI's Staged CMMI Version 1.1. The submission material shall be dated within 12 months from the first day of the on-site period to the proposal due date to include the following information:

♦ Names, titles, organizational affiliation, address, phone number, and credentials of the external evaluation team
♦ Detailed final findings report and briefing
♦ Organizational chart showing affiliation of evaluated organization and proposing organization and number and type of staff associated with each component represented by the organizational chart

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♦ Project profiles for each project evaluated providing details on the attributes of the projects: project description, application domain, software size, life cycle, project schedule, current phase of the project, and staffing profile

♦ On-site period dates of performance and interview schedule detailing names, roles, and organizational affiliations of individuals interviewed

Offerors proposing under the Partial Small Business Set-Aside (SBSA) have two (2) options:

(1) SBSA Offerors may validate their SEI CMMI Level 2 status by providing the same CMMI information required for proposing under the full and open competition; or alternatively,

(2) SBSA Offerors may choose to defer validation of their SEI CMMI Level 2 status until after contract award.

SBSA Offerors should carefully consider the advantages and disadvantages of their choice. A bidder that does not have current assessment data to submit may defer the expense of an assessment until after contract award. However, the IRS will not issue any software development tasks to any Contractor until the IRS CMMI Review Team has validated that the Contractor's software development process maturity is CMMI Level 2 or better. If the Contractor chooses to defer process maturity validation, the amount of time after contract award that the Contractor is ineligible to receive software development tasks may be substantial. It is also noteworthy that:

♦ SEI data shows that organizations assessed at CMMI Level 2 or better has significantly increased

♦ Under the current TIPSS contracts, IRS software development work constitutes over half the tasking

J.8.3 CMMI LEVEL 2 VALIDATION

Each Offeror's submission will be validated by members of the IRS CMMI Review Team. The estimated completion time for each validation is no longer than 2 — 3 days per Offeror.

Acceptance Criteria: The SCAMPI information submitted is validated against established criteria and must clearly indicate:

- the offeror is at a minimum, a CMMI Level 2 organization
- was performed within 12 months from the first day of the on-site period to the proposal due date
- was performed on the proposing organization
- was performed in accordance with Assessment Requirements for CMMI Version V.1.1 (ARC)
  - examined at least 3 projects
  - covered, in the aggregate, at least 20% of the technical workforce proposed for software development.
- used SEI framework: CMMI v 1.1 or later
- considered at least all process areas in Level 2 such as Requirements Management, Software Project Planning, Software Project Tracking and Oversight, Software Subcontract Management, Software Quality Assurance and Software Configuration Management (the software subcontract management process area may be outscoped if the proposing organization does not propose to use subcontractors for any portion of the software effort)
- all Level 2 process areas were evaluated as "fully satisfied"
- was performed by qualified external assessors; specifically:

  - all appraisal team members were SEI trained and certified in the Introduction to CMMI (Staged Representation) course and Intermediate Concepts of CMMI.
  - at least one member of the appraisal team has completed and is licensed and certified by the SEI as a SCAMPI Lead Appraiser (certificates for appraisal team members is required including the SEI SCAMPI Lead Appraiser number)

J.8.4 POST-AWARD MONITORING

Contractors developing software for the IRS shall maintain Level 2 or better in the process areas for CMMI in order to continue to receive software tasking. The CMMI Review Team will monitor Contractor process maturity by:

- Using standard IRS Process Appraisal Review Methodology (PARM) processes,
- Performing annual cycles of review for CMMI, and
- Considering all types of appraisal data and process improvement infrastructure data as standardized by the PARM process.

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